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UNITED STATES DEPARTMENT OF AGRICULTURE

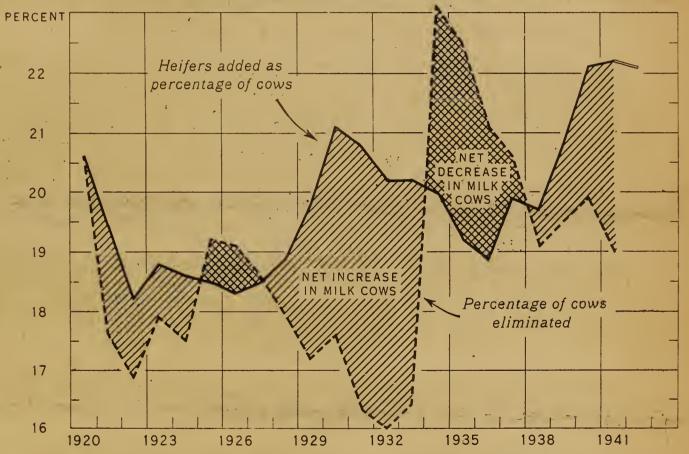
No. 23

BAE

March 26, 1942

HEIFERS ADDED TO AND COWS ELIMINATED FROM MILKING HERDS DURING EACH YEAR, UNITED STATES, 1920-41

(SHOWN AS PERCENTAGES OF NUMBER OF MILK COWS AND HEIFERS 2 YEARS OLD AND OVER AT BEGINNING OF YEAR)



U. S. DEPARTMENT OF AGRICULTURE

NEG. 39983 BUREAU OF AGRICULTURAL ECONOMICS

THE NUMBER OF MILK COWS INCREASES WHENEVER THE NUMBER OF HEIFERS THAT BECOME MILK COWS EXCEEDS THE NUMBER OF MILK COWS ELIMINATED FROM THE HERDS BY DEATH LOSSES AND CULLING. ADDITIONS AND CULLING ARE DETERMINED BY QUITE DIFFERENT CONDITIONS, AS SHOWN ON PAGES 8 TO 10.

RECENT INCREASES IN THE NUMBER OF MILK COWS HAVE RESULTED CHIEFLY FROM THE RAISING OF AN UNUSUALLY LARGE NUMBER OF HEIFERS. THE RECORD NUMBER OF HEIFERS AND HEIFER CALVES NOW ON HAND WOULD PERMIT THE RAPID INCREASE IN MILK COWS TO CONTINUE THROUGH 1943 EVEN WITH NORMAL CULLING. FURTHERMORE, PRESENT INDICATIONS ARE THAT DAIRYMEN WILL SAVE A VERY LARGE NUMBER OF HEIFER CALVES AGAIN THIS SPRING, DISREGARDING THE PROBABILITY THAT THERE ARE LIKELY TO BE MARKED CHANGES IN THE RELATIVE PRICES OF CATTLE AND FEED BEFORE THIS YEAR'S CALVES CAN BECOME COWS.

DAIRY PRODUCTION SUMMARY

On the surface, current reports on dairy production, manufactures, and prices seem to show little change from recent months. Fundamental factors, however, appear to be working against an extended continuation of the present high level of returns. Costs are rising. Dairymen are confronted with increasing competition for feed and for labor. Prices of dairy products seem high but they have been slipping back in comparison with prices of other farm products, and seem likely to slip farther. Price: relations are least favorable for dairymen who sell cream for making butter.

Comparing prices now with those of a year ago and using rough approximations where definite information is lacking, farmers seem to be receiving about 15 percent more for butterfat and possibly 30 percent more for milk, but the price of feed grain is up about 40 percent, commercial feeds at wholesale are up 55 percent, hay at the farms perhaps 35 percent, milk cows 30 percent and farm wage rates at last report 34 percent. Beef, veal, lambs and chickens, which were fairly high a year ago, have recently been higher by 18 to 24 percent and hogs and eggs by more than 60 percent.

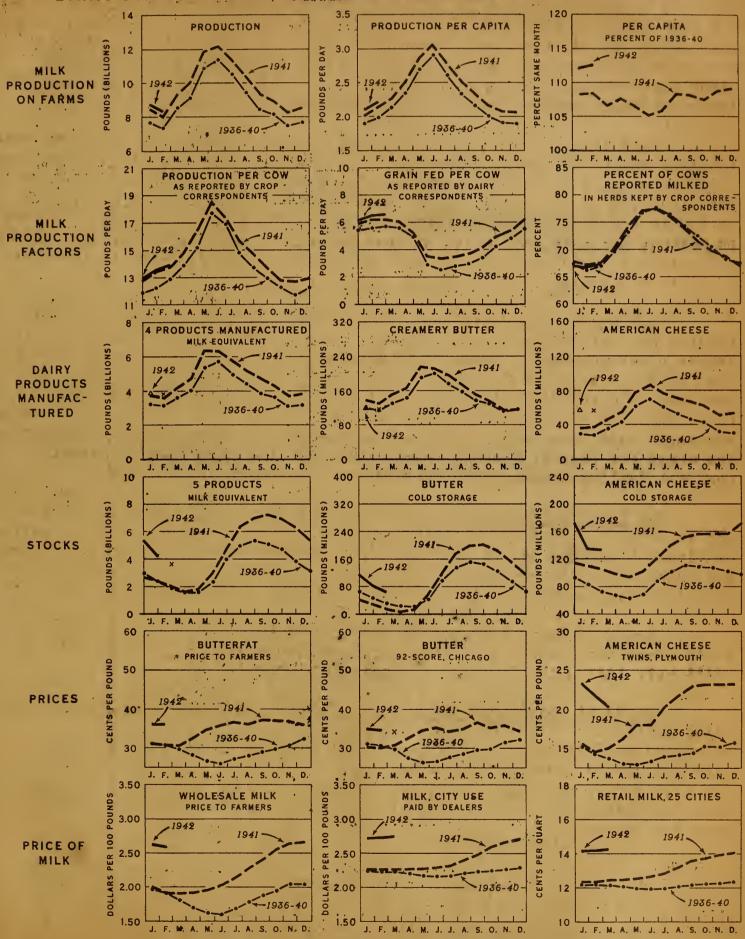
Milk production continues at a record level for this season. With about 3 percent more milk cows on farms than a year ago milk production in February was up about 4 percent. The high production per cow appears to be due primarily to liberal feeding. Compared with the 1936-40 average for the date, the reported milk production per cow on March 1 was up about 1 pound per day, or 8 percent. Dairy correspondents at that time were feeding about .9 pound more grain per head, an increase of 15 percent. In butterfat areas the rate of feeding seems likely to show more than the usual seasonal decline unless price conditions become more favorable.

The total production of manufactured dairy products continues high and is utilizing most of the increase in milk production. Butter production continues light but is likely to be relatively heavier next summer. Cheese and evaporated milk production have been outstandingly heavy but may not show the usual percentage of increase as the season advances.

Stocks of dairy products in sight have continued to decline but are still about twice the 5-year average. Commercial stocks of butter are still very large—the largest on record for March 1.

Prices of dairy products have edged downward about seasonally. Not-withstanding the recent decline, the price of American cheese is still up nearly 50 percent above the 1936-40 average for March compared with increases of 23 percent in milk for city distribution and 16 percent for butter. Shifts in production should ultimately bring these prices closer to their normal relation to each other but progress seems likely to be slow for some months at least.

DAIRY STATISTICS: GRAPHIC SUMMARY FOR THE UNITED STATES



SUMMARY OF DAIRY STATISTICS FOR THE UNITED STATES

SUMMARY OF DATHY STATISHICS FOR THE UNITED STATES													
			Average 1935-39		1941	or 1942							
			or 1936-40	or 1941	Total or average	Percent o							
MILK PRODUCTION ON FARMS: Total, per month mil.lb.	Dec. Jan. Feb.		7,437 7,549 7,245	7,961 8,362 7,935	8,466 8,726ª/ 8,288ª	106.3 104.4 104.4							
Per capita, daily average 1b.	Jan. Feb.		1.876 1.964		2.104 ^B / 2.211 ^B /	103.5 103.5							
Per cow, per day	Jan. Feb. Mar.	1	11.94 12.26 12.93	12.78 13.46 13.77	12.95 13.55 13.95	101.3 100.7 101.3							
GRAIN FED PER COW 1b. (as reported by dairy correspondents)	Feb.		5.61 5.70	6.18 6,20	6.53 6.58 ^c /	105.7							
PRODUCTION OF MANUFACTURED DAIRY PRODUCTS: Creamery butter, monthlymil.lb.			119.0 115.3	135.6 ^b /	121.4 ^b /117.4 ^a /	89.5 90.2							
weekly week ending American cheese, monthly mil. 1b.		5	30.0 29.5	36.9 3 7.1 .	56.1 <u>b</u> / 57.4 <u>a</u> /	90.0 152.0 154.7							
weekly week ending	Mar.	5		aya ann nao	**** ***	150.3							
Evaporated milk, case mil.lb.	Dec. Jan.		114.8 130.6	148.6 170.9	286.7 ^b / 311.0	192.9 182.0							
4 products, milk equivalent mil.lb. (Creamery butter x 21, all cheese except skim x 10, canned cond. & evap. milk x 2.2)	Dec. Jan. Feb.		3,040 3,210 3,138	3,736	3,815 3,939	108.9 105.4 106.3°							
STOCKS ON HAND: Butter in cold storage mil.lb. (Including government holdings)	Feb.		47.2 32.2	29.7 16.5	83 .1 6 3.7	279.8 386.1							
Commercial holdings, only	Mar.	1	15,1	15.0	52,0	346.7							
American che ese	Feb. Mar.		82.6 73.4	109.8	137.3 132.3	125.0 125.8							
Evaporated milk, case mil.lb. (Manufacturers' stocks)	Feb.	1	180.9 147.7	187.7 189.2	328.5 252.5	175.0 133.5							
5 products, milk equivalent mil.lb. (Butter, all che ese, canned cond. & evap. milk plus cream in cold storage)	Jan. Feb. Mar.	1	2,974	2,686 2,374 1,988	5,381 4,168 3,653c/	200.3 175.6 183.8							
PRICES: Butterfat, per pound	Jan. Feb.		31.3 30.8	31.1 30.5	36.3 36.2	116.7							
Butter, wholesale, per pound ct. (92 score, Chicago)	Feb. Mar.		30.72 29.44	30. 07 30.79	34.48 34.25 <u>e</u> /	114.7							
American cheese, wholesale, per pound ct. (Twins, Plymouth, "isconsin)	Feb.		14.30 13.70	14.50 15.00	21.75 20.25	150.0							
Milk, wholesale, per 100 pounds dol. (All purposes, prices received by fargers)	Jan. Feb.		1.97	2.00	2.64b/ 2.59a/	132.0							
Milk for city distribution, per 100 lbs. dol. (Prices paid by dealers, 3.5% basis)	Feb. Mar.		2.23	2.26	2.74 2.75a/	121.7							
Milk, retail delivered, per quart ct. (Average, 25 markets)	Mar.		12.19 12.15	12.33 12.45	14.23b/ 14.26a/	115.4							
a/ Preliminary, b/ Preliminary revision, c/ F	mana	at o	r interne	lation.									

a/ Preliminary. b/ Preliminary revision. c/ Forecast or interpolation. d/ Not available when accompanying chart was prepared. e/ Price March 13.

MILK PRODUCTION ON FARMS

With the number of milk cows on farms increasing steadily, and milk production per cow swinging upward seasonally at a level somewhat above that a year ago, total milk production continued through February this year at record high levels for the month. With prices of most dairy products higher than for some years, farmers in the more important dairy areas have been feeding their milk cows liberally, and milking a larger proportion of the milk cows in their herds than is usual for this season of the year.

For the month of February, milk production in the United States is estimated at 8.3 billion pounds, more than 4 percent higher than in the same month last year. In relation to the number of people in this country, milk production in February 1942 was the highest for the month in more than a dozen years. The daily average per capita production of 2.21 pounds exceeded by nearly 3 percent the previous high for the month in 1932, a year of unusually heavy winter milk production.

MONTHLY MILK PRODUCTION ON FARMS, UNITED STATES 1936-40 Average, 1941, and 1942

					`			
9 - 1	<u>:</u>		Monthly	Total		: Daily A	verage per	Capita _
Month		Average:	. :	:	1942	:Average :		1
	i	1936-40:	1941 :	_1942 :_	1941_	:1936-40:	1941:	_ 1942
		Mil	lion pound	ls	Pct.		Pounds	
January		7,549	8,362	8,726	104	1,376	2.033	2.104
February		7,245	7,935	8,288	104	1.964	2,136	2.211
JanFeb.	Incl.	14,794	16,297	17,014	104.4	1.918	2.082	2.155
March		8,462	9,240	na politika ump pro sandik paraktista etti ida ida ida ida ida ida ida ida ida id		2.101	2.245	7
April		9,004	9,921		••	2.308	2.489	
May	τ ,	10,741	11,711			2,664	2.842	
June		11,203	12,058			2.869	3.021	
July		10,395	11,250			2.575	2.725	
August		9,284	10,279	v		2.298	2.489	1 =
September		8,348	9,240			2.134	2.310	201
October		8,042	8,836	·		1.987	2.135	
November		7,369	8,200			1.880	2.046	
<u>December</u>		7,585	8,466_			1.872	2.043	
Yearly To	tal		115,498			2.211	2,377_	

MILK PRODUCTION PER COW

Milk production per cow on March 1 was the largest reported by crop correspondents in 18 years of record, despite somewhat less than the usual seasonal increase during February. Production per cow averaged well above the 1931-40 average for March 1 in all major groups of States except the South Central.

Production per cow was especially high in the important Northern commercial dairy area. In Wisconsin and New York, production per cow in herds kept by crop correspondents was substantially higher than on any previous March 1. In most of the other Northern States east of the Great Plains, production per cow was not far below previous high records for March 1. The quantity of grain and concentrates fed per milk cow was the most liberal for the date in any recent year according to reports from dairy correspondents in New England, New York, New Jersey, Pennsylvania, Maryland, Delaware, and Wisconsin, the States in which current monthly reports on rate of feeding are available. In the eastern part of this area cold weather in February might partially explain the relatively heavy feeding, but in the western Lake Area and upper Mississippi Valley, temperatures have been above normal and farmers have obviously been forcing their cows in response to unusually high prices for dairy products. In the North Atlantic States,

the percentage of milk cows milked on March 1 averaged higher than previously reported for the date in the 18-year period for which records are available, and in the East North Central States the percentage milked this March 1 has been exceeded only once:

In the Gulf Coast States, unseasonably low temperatures have slowed pasture development, and rainy weather has been relatively unfavorable for milk cows. Preduction per cow milked in this area on March 1 was somewhat above the average of recent years, but the low percentage of cows in milk reduced the average output per milk cow in herd considerably below average for March 1. In the Western group of States, the unusually cold weather during February resulted in much less than the usual seasonal increase in milk production per cow and the March 1 average was 4 percent lower than last year. However, the level of production per cow was higher than on the same date of any year prior to 1941.

For the country as a whole, milk production per cow in herds kept by crop correspondents averaged 13.95 pounds on March 1 compared to 13.77 pounds on the same date a year ago and the 1931-40 average of 12.75 pounds for the date. In these herds, 67.5 percent of the milk cows were reported in production, about the same as on this date in the past 3 years, but higher than in any other year back through 1925.

RECENT PRICE CHANGES AND THEIR SIGNIFICANCE

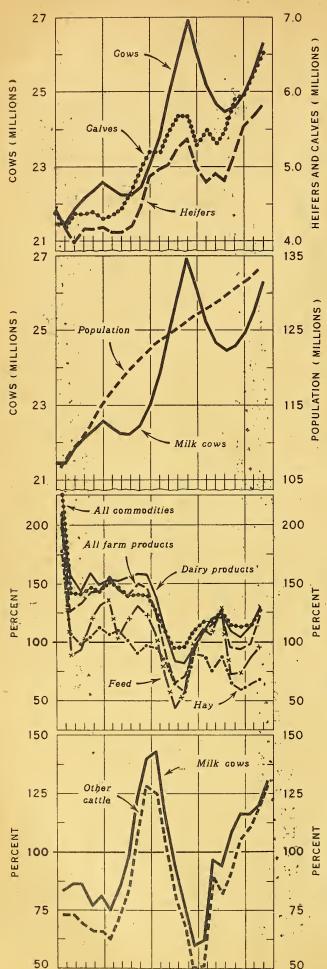
Since June of last year, the price of butterfat has been declining relative to the price of feed grains. By mid-March the price of butterfat was probably lower compared to grains than in March of other years since 1920 except just after the short corn crops of 1924, 1934, and 1936 were harvested. Butterfat appears to be nearly as low compared to the price of beef cattle as the average at this season during the last 3 years and lower than in March of other years back through 1910 when monthly price estimates were started. Compared with the price of hogs, butterfat appears to be lower than at this season in any of the past 30 years except 1917 and 1918, during the last war. Unless consumers can be persuaded to pay a higher price per pound for an increasing supply of butter no real remedy for these unfavorable price relations is immediately in prospect for farmers selling sour cream. In the western Corn Belt States, the principal butterfat producing area, the number of milk cows is increasing and, with the exception of Minnesota, numbers are not yet above the pre-drought peak, but butterfat at 35 cents per pound cannot long compete with hogs at 13 cents per pound. Farmers in this area are increasing hogs and beef cattle much more rapidly than they are increasing milk cows and some shifting towards less intensive dairying seems likely, with lower production per cow tending to offset the increase in the number of milk cows.

In most cheese and condensery areas prices have declined moderately in the last few months due to reduction in the paying prices of the U.S.D.A. for Lend Lease products but prices are still high and conditions call for full steam ahead where adequate manufacturing facilities are available. Conditions also appear favorable in areas producing dry skim milk. Market milk areas, which suffered the least during the years of low prices, have been helped by the higher prices obtained for the surplus milk sold for manufacturing purposes, but they are now being increasingly affected by the movement of labor from the farms to the factories, by the rising cost of feed and by the slowness of market milk prices to respond to increased costs. As we tighten our belts for war, conditions seem likely to become rather less favorable for dairying, although Lend-Lease shipments should help to maintain prices at a more favorable relation to costs than they were during World War I.

737 3 "

	WITK 1	KODOCED PER WILL	$\frac{1}{2}$	
State	:	M.	ARCH 1	
and	: Average		:	:
Div.	<u>: 1931-40</u>	_:1940	: _ 1941	: 1942
7.7.10			ounds	
Me.	12.4	13.2	13.5	13.1
N.H.	14.4	14.9	13.5	15.0
Vt.	13.5	14.1	14.0	14.8
Mass.	17.2	17.3	17.9	18.0
Conn.	17.0	17.2	17.1	18.4
N.Y.	15.5	17.0	16.7	18.0
N.J.	18.8	19.3	19.1	20.6
Pa	16.2	16.9	16.9	17.7
N.ATL.		<u>16.7</u> 5	<u>16.5</u> 6	17.71
0hio	14.2	14.7	14.7	14.9
Ind.	12.9	13.8	13.8	14.0
	14.1	15.1	15.2	15.2
Ill.				17.3
Mich.	16.3	17.0	18.0	
Wis.		<u> </u>	$ \frac{17.2}{16.02}$ $ -$	$\frac{18.2}{16.56}$
E.N. CENT	14.94_	$ \frac{15.76}{7}$ $-$	16.07	16.56
Minn.	16.9	18.7	18.9	18.5
Iowa	14.2	16.0	15.7	15.6
Mo.	8.6	9.2	9.1	9.4
N.Dak.	11.7	14.2	14.8	14.1
S.Dak.	10.8	12.7	12.0	12.5
Nebr.	12.9	13.8	13.5	12.9
Kans.	<u>-13.2</u> -	$ \frac{13.4}{25}$	14.4	$,-\frac{14.3}{24}$
W.N.CENT.	<u>_ 13.06</u> _	14.65	14.55	
Md.	13.4	15.6	15.4	15.4
Va.	9.5	10.0	_10.4	10.8
W.Va.	8.5	8.2	8.4	9.4
N.C.	9.9	10.7	10.6	10.7
S.C.	9.3	9.6	9.8	9.7
Ga	$\frac{8.1}{0.000}$	<u>8.5</u>	8.6	<u>8.1</u>
S.ATL.	9.66_	10.38	10.47	10.89
Ky.	9.2	9,6	9.9	10.2
Tenn.	8.2	8.6	8.9	8.8
Ala.	7.2	7.4	7.7	7.6
Miss. Ark.	6.3	5.4	5.8	6.1
	7.0	7.0	7.7	7.1
Okla.	9.5	9.5	9.7	9,2
Tex.	8.4 _	7.8		
S.CENT.	8.09_	<u>8.08</u>	8.46	<u> </u>
Mont.	11.7	12.2	13.5	12.1
Idaho	15.7	16.4	16.7	15.4
Wyo.	11.3	12.6	12.7	12.0
Colo.	12.8	13.7	14.6	13.7
Wash.	15.4	16.2	16.7	16.6
Oreg.	13.8	14.7	15.2	15.0
Calif.		$ \frac{17.3}{2}$	<u>_ 18.4</u>	<u>- 18.1</u>
	14.22_	<u>15.19</u>	15.88	15.29
<u>u.s.</u>		<u>_ 13.6</u> 2	13.77	13.95

Averages represent the reported daily milk production of herds kept by reporters divided by the total number of milk cows (in milk or dry) in these herds. Figures for New England States are based on combined returns from crop and special dairy reporters. Figures for other States, regions, and U. S. are based on returns from crop reporters only. The regional averages are based in part on records of less important dairy States not shown separately, as follows: North Atlantic, Rhode Island; South Atlantic, Delaware and Florida; South Central, Louisiana; Western, New Mexico, Arizona, Utah and Nevada.



K COWS, HEIFERS, AND HEIFER CALVES KEPT FOR MILK CONUMBERS ON FARMS, JANUARY 1, UNITED STATES, 1920-42

THE NUMBER OF YEARLING HEIFERS ON HAND JANUARY 1 AND BEING KEPT FOR MILK COWS HAB AVERAGED A LITTLE LESS THAN ONE-FIFTH OF THE NUMBER OF MILK COWS 2 YEARS OLD AND OVER. THIS PROPORTION HAS BEEN ENOUGH TO OFFSET ANNUAL CULLING AND OEATH LOSSES AND PROVIDE FOR THE GRADUAL INCREASE IN MILKING HEROS. THIS YEAR, AB IN 1940 AND 1941, THE NUMBER OF YEARLING HEIFERS ON HAND 18 LARGER IN PROPORTION TO THE NUMBER OF COWS THAN IN ANY OF THE 20 YEARS PRIOR TO 1940. THE NUMBER OF 1941 HEIFER CALVES BEING RAISED FOR MILK COWB IS ALSO VERY LARGE AND WITH GOOD CROPS THIS YEAR A LARGE NUMBER OF 1942 CALVEB WILL PROBABLY BE RAISED.

MEIFER CALVES APPEARING IN ONE JANUARY INVENTORY AS BEING KEPT FOR MILK COWS ARE ON HAND A YEAR LATER AS HEIFERS 1-2 YEARS OLD, KEPT FOR MILK COWS ARE ON HAND A YEAR LATER AS HEIFERS 1-2 YEARS OLD, KEPT FOR MILK COWS ARE ON HAND A YEAR LATER AS HEIFERS 1-2 YEARS OLD, AS THE HEIFER CALVES NOW BEING RAISED FOR MILK COWS COME INTO PRODUCTION THE NUMBER OF MILK COWS WILL CONTINUE TO INCREASE UNLESS CULLING 18 ALMOST AS HEAVY, AS IT WAS AFTER THE ORDUGHT OF 1934.

MILK COWS AND POPULATION

THERE HAS USUALLY BEEN NEARLY ONE MILK COW FOR EACH 5 PEOPLE IN THE UNITED STATES, DR ABOUT ONE PER FAMILY BUT AS MILK PRODUCTION PER COW HAS INCREASED OVER A LONG PERIOD OF YEARS THE NUMBER OF COWS NEEDED PER 100 PEOPLE HAS DECLINED. THE PRESENT NUMBER OF MILK COWS IS THE SECOND HIGHEST ON RECORD, BUT IT IS NOT YET UNUSUALLY HIGH IN PROPORTION TO THE POPULATION. HOWEVER, WITH LENO-LEASE REQUIREMENTS EQUAL TO ABOUT 5 PERCENT OF OWN HILK PRODUCTION ADOED TO OUR NORMAL DOMESTIC CONSUMPTION IT HAS BEEN NECESSARY TO PUSH THE COWS FOR HIGH PRODUCTION—A REQUIREMENT WHICH ITENDS TO SUPPORT PRICES FOR DAIRY PRODUCTS AT A HIGH LEVEL RELATIVE TO FEED COSTS. THE 3 PERCENT INCREASE IN MILK COWS IN 1941 AND THE SOMEWHAT SIMILAR INCREASES NOW IN PROSPECT FOR 1942 AND 1943 AND THE SOMEWHAT SIMILAR INCREASES NOW IN PROSPECT FOR 1942 AND OF COURSE, LEND-LEASE AND ARMY REQUIREMENTS MAY INCREASE, BUT ALLOWING FOR THE DRAWING OF LABOR FROM THE FARMS AND THE CHANGES IN FOOD HABITS THAT ARE TO BE EXPECTED IN TIME OF WAR, THERE IS NO APPRENT NEED FOR THE RAISING OF A LABOR KUMBER OF HEIFER CALVES IN 1942 FOR FURTHER INCREASING DAIRY HERDS IN 1944 AND 1945.

INDEXES OF ANNUAL PRICES OF DAIRY PRODUCTS, FEED GRAINS, ALL FARM PRODUCTS AND ALL COMMODITIES: UNITED STATE

THE ADJISTMENTS MADE BY DAIRYMEN ARE DETERMINED IN PART BY ACTUAL PRICES AND IN PART BY THE RELATION BETWEEN PRICES FOR DIFFERENT PRODUCTS CHANGES IN THE GENERAL LEVEL OF PRICES EXPLAIN SOME OF THE DIFFERENCES IN BE STORED FOR FUTURE USE, HAVE RISEN AND FALLEN RAPIDLY WITH CHANGES IN THE PRICES LEVEL AND WITH CHANGES IN PROSPECTIVE SUPPLIES. DAIRY PRODUCTS AS A GROUP MOVE MORE DIRECTLY TO CONSUMERS AND THEIR PRICES HAVE USUALLY CHANGED LESS AND MORE SLOWLY. THIS PARTIALLY EXPLAINS WHY THEY WERE HIGH COMPARED WITH OTHER FARM PRODUCTS UNING THE WORST DEPRESSION YEARS AND LOW COMPARED WITH OTHER FARM PRODUCTS UN SOME PERIODS WHEN PRICES WERE RISING. RECENTLY PRODUCERS IN BTRICTLY OAIRY AREAS HAVE FELT THE STIMULATING EFFECT OF INCREASES IN PRICES OF DAIRY PRODUCTS UNING THE WORST DEPRESSION USER WERE WICE AND HERE MILK COWS COMPETE WITH OTHER FIXED COSTS. BUT IN MANY AREAS WHERE MILK COWS COMPETE WITH OTHER LIVESTOCK THE NUMBERS OF HOGS AND BEEF CATTLE SHOW MUCH LARGER PERCENTAGES OF INCREASE THAN DO MILK COWB. SO LONG AS THIS CONTINUED IT MEAND INCREASING COMPETITION FOR THE FEED AND PROBABLY ABOVE AVERAGE CULLING OF MILK COWS.

THE PROFIT SECURED FROM RAISING DAIRY HEIFER CALVES THIS YEAR WILL DEPEND CONBIDERABLY ON WHAT MILK COWS ARE WORTH IN 1944 AND 1945. THIS WILL DEPEND ON THE GENERAL LEVEL OF PRICES AT THAT TIME AND ON THE RELATION OF THE PRICE OF MILK COWS. SO FAR AS RECORDS ARE AVAILABLE, PURPURCHASING POWER OF BOTH MILK COWS. SO FAR AS RECORDS ARE AVAILABLE, PURPURSING POWER OF BOTH MILK COWS AND OTHER CATTLE HAS RISEN AND FALLEN QUITE REGULARLY, REACHING PEAKS ABOUT EVERY 14 TO 16 YEARS. USING THE JANUARY I VALUATIONS (WHICH ARE CUSTOMARILY USEO FOR THIS PURPOSE BECAUSE THEY ARE COMPARABLE BACK TO THE CIVIL WAR PERIOD) IT IS APPARENT THAT THE PURCHABING POWER OF CATTLE HAS APPROACHED PREVIOUS PEAKS SO THAT A SHARP TURN MAY TAKE PLACE FAIRLY SOON. THE NUMBER OF CATTLE HAVE NOT BEEN CORRESPONDINGLY LARGE BECAUSE FAMMERS HAVE BEEN HOLDING BACK MEAR-RECORD NUMBERS OF COWS AND HEIFERS TO INCREASE THEIR HEROS. HOW LONG THIS TENDENCY WILL CONTINUE DEPENDS SO MUCH ON THE CONDITION OF RANGEB AND ON HAY AND FEED PRODUCTION THAT IT CANNOT BE PREDICTED DEFINITELY BUT, AS SHOWN BY THE CHART ON PAGE 9, THE PRICE OF MILK COWS ALPEADY SHOWS SIGNS OF DECLINING IN COMPARISON WITH THE GENERAL LEVEL OF PRICES OF ALL FARM PRODUCTS.

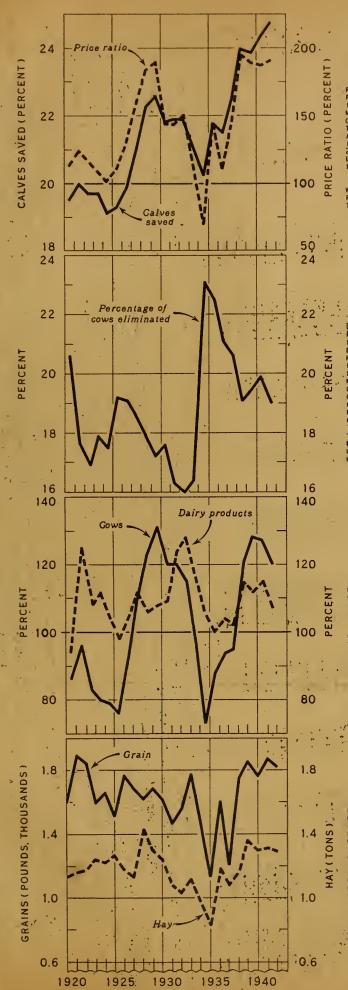
1925

1930

1935

1940

1920



PRICE OF MILK COWS RELATIVE TO VALUE OF FEED

PRICES ARE NOW ABOUT AS FAVORABLE FOR RAISING CALVES AS THEY WERE A YEAR AGO AND IT IS PROBABLE THAT CAIRYMEN, WILL SAME & NEAR FRECORD NUMBER THIS SPRING. IT SEEMS PROBABLE, HOWEVER, THAT CONDITIONS WILL SOON BE MUCH LESS FAVORABLE FOR SAVING CALVES.

MILK COWS ELIMINATED OURING YEAR AS PERCENTAGE OF MILK COWS 2 YEARS OLO OR OVER, JANUARY

AS PERCENTAGE OF MILK COWS 2 YEARS OLD OR OVER; JANUARY 1

THE PERCENTAGE OF THE COWS ELIMINATED FROM MILKING HERDS,
CALCULATED, AS SHOWN ON PAGE 10, DECLINES WHEN DAIRYING IS RELATIVELY
PROFITABLE AND RISES WHEN FARMERS REDUCE LIVESTOCK BECAUSE OF A
SHORTAGE OF FEED OR WHEN FARMERS SHIFT EXTENSIVELY FROM MILK COWS TO
SEEF CATTLE, HOGS, OR OTHER KINDS OF FARMING. LOOKING ONLY AT
NATIONAL TOTALS, CULLING OF MILK COWS WAS HEAVY IN EARLY 1920 WHEN
FEED WAS HIGH, BUT ORDPPED SHARPLY WITH THE TREMENDOUS POST-WAR
SLUMP IN GRAIN PRICES THAT FOLLOWED AND AVERAGED FAIRLY LOW THROUGH
MOST OF THE 1921-26 PERIOD WHEN THE NUMBER OF BEEF CATTLE WAS REOUCED BY 30 FERCENT. THERE WAS, HOWEVER, A TEMPORARY INGREASE IN.
CULLING OURING 1925 AND 1926, AFTER THE PARTIAL FAILURE OF THE COMPARED TO HOGS. AFTER THE EXCEPTIONAL HAY CROP OF 1927 INTEREST IN
CATTLE REVIVED AND, WITH GRAIN PRICES ORASTICALLY REDUCED BY THE
1929-33 OFFRESSION, THE CULLING OF BOTH MILK COWS AND BEEF COWS CONTINUED ABNORMALLY LOW TILL THE DROUGHTS OF 1934 AND 1936 NECESSITATED
LIQUIDATION. MOST OF THE TIME SINCE THE DROUGHT PERIOD OAIRY PRODUCTS HAVE BEEN LOW IN PRICE COMPARED TO CATTLE AND HOGS AND CULLING
HAS BEEN AVERAGE OR HIGHER.

PRICES OF MILK COWS AND DAIRY PRODUCTS RELATIVE TO ALL FARM PRODUCTS

OAIRYMEN RAISE MORE THAN THE USUAL PROPORTION OF THEIR HEIFER CALVES FOR REPLACEMENT PURPOSES WHEN THE PRICE OF MILK COMPARED WITH OTHER FARM PRODUCTS, PARTICULARLY WHEN IT IS HIGH COMPARED WITH THE PRICES OF HAY AND GRAIN. THE SOL'ID LINE IN THIS FIGURE SHOWS WHEN THE PRICE OF COWS WAS HIGH AND WHEN LOW COMPARED WITH OTHER FARM PRODUCTS. WHEN IT IS HIGH, AS IN 1929 AND 1938-41 IT EXPLAINS THE LARGE NUMBER OF CALVES SAVED IN THE CHART AT THE TOP'OF THE PAGE.

OAIRYMEN CULL OUT MORE THAN THE USUAL PROPORTION OF THEIR COWS WHEN PRICES OF OAIRY PRODUCTS ARE LOW COMPARED TO OTHER FARM PRODUCTS THAT THEY CAN PRODUCE, PARTICULARLY WHEN THEY ARE LOW IN COMPARISON WITH HOGS AND BEFF CATTLE. THE OOTTED LINE SHOWS WHEN DAIRY PRODUCTS AS A GROUP WERE HIGH OR LOW COMPARED WITH THE OTHER FARM PRODUCTS. WHERE THE LINE IS HIGH, AS FOR EXAMPLE, 1932, IT EXPLAINS A LOW RATE OF CULLING IN THE FIGURE JUST ABOVE.

THE GREAT DROUGHTS OF 1934 AND 1936 AND THE FEED SHORTAGES WHICH EXTENDED INTO THE FOLLOWING YEARS NECESSITATED HEAVY REDUCTION IN NUMBERS OF ALL LIVESTOCK AND POULTRY. THE PARTIAL FAILURE OF THE CORN CROPD OF 1924 AND THE DROUGHT OF 1930 CAUSED SOME LESSER ADJUSTMENTS. THE POOR HAY CROPS OF 1925 AND 1926 MAY HAVE INCREASED MARKETINGS: SOMEWHAT SUIT THE EFFECTS OF THE REDUCED HAY SUPPLIES OF THE 1931 TO 1933 PERIOD WERE LARGELY OFFSET BY THE GREAT ORDP IN THE PRICES OF FEED GRAIN, WHEAT, AND MANY OTHER FARM PROQUETS, DURING THE DEPRESSION. RECENTLY THE ABUNDONCE OF FEED SUPPLIES IN PROPPRIION TO THE NUMBER OF ANIMALS TO BE FED HAS BEEN CAUSING RAPID INCREASES NOT ONLY IN OAIRY HEROS BUT IN TOTAL LIVESTOCK. NUMBERS OF CATTLE, SHEEP AND POULTRY ARE ALREADY THE LARGEST ON RECORD AND STILL INCREASING, AND THE NUMBER OF HOGS MAY EXCEED PREVIOUS PEAKS BEFORE THE END OF THE YEAR. WITH THE PRODUCTION OF GRAIN AND HAY DEPENDENT ON THE WEATHER AND LIMITED BY WARTIME DIFFICULTIES, CONDITIONS CANNOT LONG CONTINUE SO FAVORABLE FOR EXPANDING LIVESTOCK NUMBERS OR THERE WOULD SOON BE MORE LIVESTOCK THAN COULD SE FED. THE LINES ON THIS CHART SHOW HOW THE FISCAL YEAR SUPPLIES (PRODUCTION PLUS CARROVER) OF FEED GRAIN AND HAY HAVE COMPARED WITH THE NUMBER OF LIVESTOCK ON JANUARY 1, COUNTING 1 MILK COW OR THE EQUIVALENT IN OTHER LIVESTOCK AS ONE UNIT.

1920-42
D STATES.
UNITED ST
COWS:
OF MILK (
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1	one pound of	erfat 4	,		of live	pogs			Pounds	4.29	4.90	4.36	90.9	5,41	3,85	3,55	4,59	5,26	4.78	3,97	4.31	5.22	5.34	5,41	3,35	3,54	3,53	3,43	3,83	5,20	3,79	
1	Value of on	butte	••		of feed:	grains :	••	••	Pounds	22.4	36.6	33.0	31.1	25.8	26.0	34.1	31.5	29.3	30.7	27.3	30.2	34°.2	27.2	19.7	21.6	25.6	21.9	30° 0	27.8	27.7	30.4	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Price of :	Dairy prod .:	as % of	all farm :	products:	••	••	••	Percent	94	125	108	112	104	80	105	112	106	108	109	124	128	117	106	100	1 5	102	115	112	115	107	• -
104 60TTTT	y per :	of 3/		••	Hay	•	••	••	Ton.	1,126	1,164	1,175	1.237	1.217	1.271	1.176	1,129	1,433	1,301	1.249	1.077	1.032	1,115	080	. 834	1.188	1.083	1.160	1,359	1,299	1,311	1.291
	: Supply	: unit	LIVestock	••	: Feed :	grain :	••	••		1,594	1,886	1,841	1,598	1,657	1,508	1,768	1,685	1,619	1,686	1,624	1,467	1,556	1,775	1,475	1,133	1,609	1,211	1,749	1,853	1,772	1,869	1,820
		Cows	1	Price	as %	of all	farm	prod.	Pct.	86	96	83	80	79	92	85	109	123	131	120	120	115	97	73	88	94	92	121	128	127	120	
1 1 1		of Milk (Last	6 000.	as % of	feed	costs	Pct.	113	134	116	108	101	111	129	158	184	190	144	143	151	113	69	144	111	143	195	189	187	191	
		Price o	1		Yearly:	Avg.	••	••	Pol	89,50	59.10	53,60	55,40	55,50	57.90	65,50	74.20	89.80	94,10	74.30	51,30	37,00	33,20	32,50	46,90	52,70	56.80	56.70	58,60	61.00	71.70	
	: Beef :		2 +	••	: Number :	••	••	••	Thous.	12,525	12,292	12,182	11,574	11,926	11,204	10,294	9,439	8,926	8,997	9,162	6)8°6	10,439	11,346	12,678	11,151	11,048	10,682	10,132	9,987	10,629	11,229	12,017
TOTOWE T		ercentage	COWS 2	S. Cows	.elimi-	:nated	during.	. year	Pot	30.6	17.6	16.9	17.9	17.5	19.2	19,1	18.6	17.9	17.2	17.6	16.3	16.0	16.4	23.1	22.5	21.1	20.6	19,1	19,5	19,9	19.0	
STATE OF THE PROPERTY OF THE P		as p	of milk c	1	:Heifer	:calves	:under	11 year	Fot	20.4	19.5	0.0%	19.7	19.7	19.1	19.3	19,9	21.0	22.3	22.6	21.8	21.9	21.9	21.1	20.2	21.8	21.5	22.5	84.0	23.9	24.4	24.8
ini,		Numbe			Heifers	4+2 for	milk.	COMM	Pot.	30.6	19.4	18,2	18,3	18.6	18.5	18,3	18,5	18,9	19.8	21.1	20.8	20.2	20.2	20.0	19.2	18,9	19,9	19,7	20.8	22.1	22.2	22,1
	••	s 2 +1/#	1	Pct. of:	prev. *	••	•6	**	Pot	98.6	100,0	101.8	101.3	100.9	101.1	99,3	99.3	68.66	100.9	102.6	103.4	104.5	104.2	103.8	96.8	95.6	97.8	99,3	100,5	101,3	102.2	103.2
		Milk cors	1		Number:	**	••	••	Thous.	21,455	21,451	21,851	22,138	22,331	22,575	22,410	22,251	22,231	22,440	23,032	23,820	24,896	25,936	26,931	26,032	25,196	24,649	24,465	24,600	24,925	25,478	25,303
		••	Year	••	••	••	••	**	† 	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	51935	1936	1937	1938	1939	1940	1941	1942

Estimated numbers of "cows and heifers 2 years old or over, kept for milk, on farms January 1." Includes recent revisions towards Numbers are higher than the yearly averages of milk cows on farms as published last month because of inclusion of some 2 year old heifers not in production on January 1. inaications of 1940 Census.

be "added to the dairy herds" in calendar year when they became 2 years old, and the heifer calves on hand January 1 were assumed to have been "saved" in the previous year. The percentage of milk cows eliminated is computed from the number of cows plus heifers 1-2 at the beginning of the year less the number of cows the following January. As thus computed it includes culling, death Feed supplies per unit for fiscal year feeding period that includes January of year shown. Computed from previous year's production Numbers on farms January 1 as percent of numbers of milk cows shown in column 1. In making comparisons the heifers are assumed to losses of cows and heifers and net shifts of animals from milk cow to beef cow classification. 2

A high price of butterfat relative to feed grains and hogs indicates only that competitive price conditions were to that extent favorable for dairying in areas producing butterfat and hogs. Nevertheless the percentage of cows culled (shown in col. 5) materially exceeded 19 percent only in years when the price of a pound of butterfat bought less than 50 pounds of feed grain. Culling was plus farm stocks, divided by units of livestock on farms January 1.

light chiefly when butterfat was high in price compared to grain; also in some years when high compared to hogs.